

### Compex 16-Port All 10/100 Mbps Fast Ethernet Switch

DSR2216

Version 1.2C



### Introduction

The key features of the Compex 16-Port All 10/100 Mbps Fast Ethernet Switch (DSR2216) are as follows:

- Each port supports 10Base-T and 100Base-TX connection through auto-negotiation.
- 16 high-speed ports provide switching between 10Base-T Ethernet segments and 100Base-TX Fast Ethernet segments in a single integrated network.
- Implementing store-and-forward switching scheme.
- Supports 10Base-T to 100Base-TX connectivity, allowing for progressive migration.
- Support Full Duplex and Half Duplex for both 10Base-T and 100Base-TX connection at each port.
- Highly optimized flow control for full and half duplex, evolved traffic priority services, flexible trunking capabilities.
- Provides a dynamic memory sharing in/out buffer to ensure fast free packet storage and transmission, which greatly improves your network performance.
- Easy to use, configurable without cable.
- Port-trunking and priority support.

### Panel View

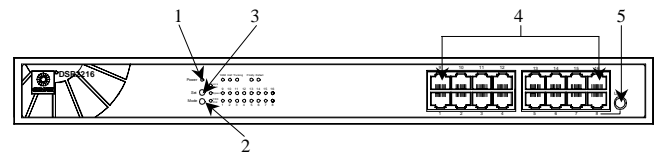


Figure 1: Overall Front Panel View of DSR2216

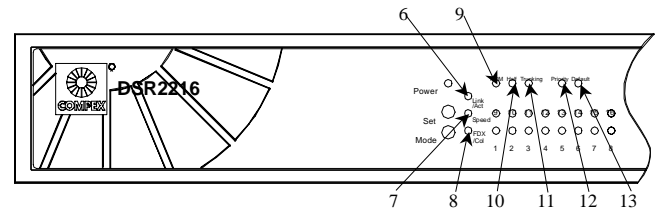


Figure 2: Front Panel View of DSR2216

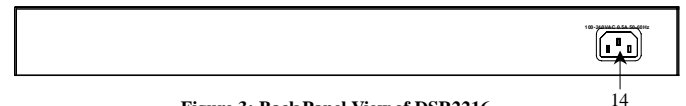


Figure 3: Back Panel View of DSR2216

### Components

1	Power LED	Green: Light up when the power supply is ON.
2	Mode Button	Button to view port status and select option mode.
3	Set Button	Button to configure port mode.
4	16 RJ-45 Ports	<ul style="list-style-type: none"> <li>RJ-45, 100Base-TX/10Base-T ports; Auto-negotiation.</li> <li>Configure as 16 UTP Ports or 15 UTP Ports plus 1 Uplink Port.</li> </ul>
5	Uplink Button ('P8')	<ul style="list-style-type: none"> <li>Uplink mode when button is pushed <b>IN</b>.</li> <li>Normal mode when button is released <b>OUT</b>.</li> </ul>
6	LINK/ACT LED	Select to view active ports link and activity status.
7	Speed LED	Select to view active ports connection speed.
8	FDX/Col LED	Select to view active ports duplex mode and collision status.
9	100M LED	Select to configure port speed.
10	Half LED	Select to configure port duplex mode.
11	Trunking LED	Select to enable/disable and select trunking ports
12	Priority LED	Select to set/reset/port priority.
13	Default LED	Select to reset switch to factory default setting.
14	Power Socket	Flexible power input (range 100-250VAC, 0.5A, 47-63Hz) meets every country's requirements.

## Specifications

•	Industry Standards	Complies with IEEE802.3 10Base-T standard, IEEE802.3u 100Base-TX standard, FCC Class A, CE Mark.
•	Interface	Support 16 <b>10/100Mbps ports</b> (RJ-45, UTP): Half/Full Duplex modes at 10Mbps and 100Mbps.
•	LED Indicators	LED indicators for system Power, Link, Speed (10/100Mbps), Duplex status, priority, trunking and Port (Transmit/Receive) traffic.
•	Speed Selection	N-way Auto-negotiation or Forced Mode.
•	Link Distance	<ul style="list-style-type: none"> <li>♦ <b>100Base-TX</b>: Requires data grade (Category 5) UTP cable. Segment length can be up to a maximum of 100 meters on every port.</li> <li>♦ <b>10Base-T</b>: Requires (Category 3, 4 and 5) UTP cable. Segment length can be up to a maximum of 100 meters on every port.</li> </ul>
•	Forwarding Method	Store-and-Forward.
•	Dynamic Address Learning/ Filtering	Yes.
•	Power Supply	Internal power supply is provided with voltage ratings of 100VAC to 250VAC, 47~63 Hz.
•	Environment Requirements	Operating Temperature: 0°C to 50°C Storage Temperature: -20°C to 70°C Operating Humidity: 10% to 80% RH Storage Humidity: 5% to 90% RH [RH = Relative Humidity]
•	MAC Address Table	16K
•	Memory Buffer	4M bits
•	Flow Control	IEEE 802.3x for full duplex mode. Back pressure for half duplex mode.
•	Physical Dimension	430mm x 200mm x 44mm (L x D x H)

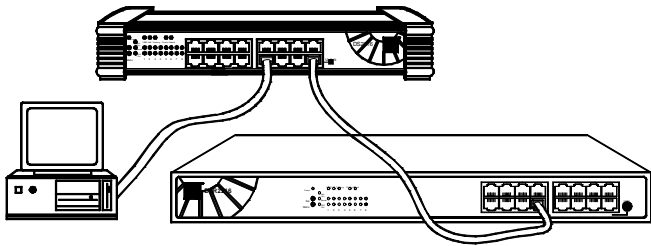
## Installation of DSR2216

DSR2216 can be installed as a desktop unit. The followings are the installation steps.

1. Unpack the unit.
2. Choose a location near the devices to be connected and close to an electrical outlet. Put the unit at a clean, smooth, level and sturdy place. Make sure there is enough clearance around the switch Hub to allow attachment of cables, power cord and adequate air circulation.
3. Plug the power cord into the back of the unit and power on the unit. Check that the power LED indicator on the unit is lighted up.
4. The unit is now ready to operate.

## Implementation

DSR2216 can be expanded easily by connecting several switches and hubs together through Uplink port. See Figure 4.



**Figure 4: Connection Diagram**

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Manual Number: **M-0329-V1.2C** Version 1.2C, February 2002

**FCC NOTICE:** This device has been tested and found to comply with the limits for a **Class A** digital device, pursuant to **Part 15 of the FCC Rules**. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- ♦ Reorient or relocate the receiving antenna.
- ♦ Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- ♦ Increase the separation between the computer and receiver.
- ♦ Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

**FCC Compliance Statement:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### ICES 003 Statement

This Class B digital apparatus complies with Canadian ICES-003.

**Gost NOTE:** This device (apparatus, equipment) complies with the radio interference limits established for Class A equipment in accordance with GOST R 51318.22-99 (CISPR 22-97) and shall not be used in dwelling houses, commercial and industrial districts with low electric power consumption and be connected to low-voltage distributions electric supply networks.

**DECLARATION OF CONFORMITY:** *Compex, Inc. declares that the product:*  
Product Name: *Compex 16-Port All 10/100 Mbps Switch Model Number: DSR2216 conforms to the following Product Standards:* **Radiated Emission Standards:** EN55022A, FCC Part 15 Class A; **Conducted Emission Standards:** EN60555P2 conducted emission; EN55022A conducted emission, LVN 60950 standard, FCC Part 15 Class A; **Immunity Standards:** IEC 801-2; IEC 801-3; IEC 801-4; **Low Voltage Directive:** EN60950. *Therefore, this product is in conformity with the following regional standards:* **FCC Class A** — following the provisions of FCC Part 15 directive; **CE Mark** — following the provisions of the EC directive.

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28<sup>th</sup> February, 2002

**Shi Jia Xiang**  
R & D Manager

## WARRANTY REGISTRATION CARD

[M-0088-V2.3C]



You can register via Internet at: <http://www.cpx.com> or <http://www.compex.com.sg>  
Or E-mail: [support@compex.com.sg](mailto:support@compex.com.sg) with the following information:

To activate the warranty, please complete this card and return to Compex within ninety (90) days of purchase date.

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Company:				Dept:			
Address:				City:			
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Phone: (     )		Extn:		Fax: (     )			
Computer in which this product is installed?				Model:		Serial No:	
Network protocol (Check all that apply):		<input type="checkbox"/> TCP/IP		<input type="checkbox"/> IPX/ODI		<input type="checkbox"/> XNS	
		<input type="checkbox"/> NDIS		<input type="checkbox"/> SNA		<input type="checkbox"/> NBP	
		<input type="checkbox"/> Other:					
Network Operating System (Check all that apply):		<b>Novell NetWare:</b> <input type="checkbox"/> 3.X <input type="checkbox"/> 4.X <input type="checkbox"/> 5.X				SC0 Unix: <input type="checkbox"/> Openserver Ver:	
		<b>Microsoft Windows:</b> <input type="checkbox"/> NT4.0 <input type="checkbox"/> 95 <input type="checkbox"/> 98				<input type="checkbox"/> Win 2000	
		<b>Linux:</b> <input type="checkbox"/> Red Hat Ver: _____ <input type="checkbox"/> SuSe Ver: _____				<input type="checkbox"/> Others: _____ Ver:	
		<b>Others NOS:</b> _____				Ver: _____	
Applications used on network processing (Check all that apply):		<input type="checkbox"/> Desktop Publishing		<input type="checkbox"/> Word Processing		<input type="checkbox"/> Accounting	
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